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TERMINAL (ENTER 1, 2, 3, OR ?):2

\*\*\*\*\* Welcome to STN International \*\*\*\*\*

|      |    |        |  |
|------|----|--------|--|
| NEWS | 1  |        | Web Page for STN Seminar Schedule - N. America   |
| NEWS | 2  | OCT 02 | CA/CAPLUS enhanced with pre-1907 records from Chemisches Zentralblatt                  |
| NEWS | 3  | OCT 19 | BEILSTEIN updated with new compounds   |
| NEWS | 4  | NOV 15 | Derwent Indian patent publication number format enhanced                               |
| NEWS | 5  | NOV 19 | WPIX enhanced with XML display format  |
| NEWS | 6  | NOV 30 | ICSD reloaded with enhancements  |
| NEWS | 7  | DEC 04 | LINPADOCDB now available on STN  |
| NEWS | 8  | DEC 14 | BEILSTEIN pricing structure to change  |
| NEWS | 9  | DEC 17 | USPATOLD added to additional database clusters   |
| NEWS | 10 | DEC 17 | IMSDRUGCONF removed from database clusters and STN                                     |
| NEWS | 11 | DEC 17 | DGENE now includes more than 10 million sequences                                      |
| NEWS | 12 | DEC 17 | TOXCENTER enhanced with 2008 MeSH vocabulary in MEDLINE segment                        |
| NEWS | 13 | DEC 17 | MEDLINE and LMEDELINE updated with 2008 MeSH vocabulary                                |
| NEWS | 14 | DEC 17 | CA/CAPLUS enhanced with new custom IPC display formats                                 |
| NEWS | 15 | DEC 17 | STN Viewer enhanced with full-text patent content from USPATOLD                        |
| NEWS | 16 | JAN 02 | STN pricing information for 2008 now available   |
| NEWS | 17 | JAN 16 | CAS patent coverage enhanced to include exemplified prophetic substances               |
| NEWS | 18 | JAN 28 | USPATFULL, USPAT2, and USPATOLD enhanced with new custom IPC display formats           |
| NEWS | 19 | JAN 28 | MARPAT searching enhanced  |
| NEWS | 20 | JAN 28 | USGENE now provides USPTO sequence data within 3 days of publication                   |
| NEWS | 21 | JAN 28 | TOXCENTER enhanced with reloaded MEDLINE segment                                       |
| NEWS | 22 | JAN 28 | MEDLINE and LMEDELINE reloaded with enhancements                                       |
| NEWS | 23 | FEB 08 | STN Express, Version 8.3, now available  |
| NEWS | 24 | FEB 20 | PCI now available as a replacement to DPCI   |
| NEWS | 25 | FEB 25 | IFIREF reloaded with enhancements  |
| NEWS | 26 | FEB 25 | IMSPRODUCT reloaded with enhancements  |
| NEWS | 27 | FEB 29 | WPIINDEX/WPIDS/WPIX enhanced with ECLA and current U.S. National Patent Classification |

NEWS EXPRESS FEBRUARY 08 CURRENT WINDOWS VERSION IS V8.3,  
AND CURRENT DISCOVER FILE IS DATED 20 FEBRUARY 2008

|            |   |
|------------|---|
| NEWS HOURS | STN Operating Hours Plus Help Desk Availability               |
| NEWS LOGIN | Welcome Banner and News Items                                 |
| NEWS IPC8  | For general information regarding STN implementation of IPC 8 |

Enter NEWS followed by the item number or name to see news on that specific topic.

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FILE 'HOME' ENTERED AT 07:55:30 ON 12 MAR 2008

=> e Octanoic acid, 7-hydroxy-2-propyl-, (2R,7S)-/cn  
THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE  
The EXPAND command is used to look at the index in a file which has an index. This file does not have an index.

| => file reg          | SINCE FILE | TOTAL   |
|----------------------|------------|---------|
| COST IN U.S. DOLLARS | ENTRY      | SESSION |
| FULL ESTIMATED COST  | 0.21       | 0.21    |

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STRUCTURE FILE UPDATES: 11 MAR 2008 HIGHEST RN 1007457-12-6  
DICTIONARY FILE UPDATES: 11 MAR 2008 HIGHEST RN 1007457-12-6

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TSCA INFORMATION NOW CURRENT THROUGH January 9, 2008.

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stdoc/properties.html>

=> e Octanoic acid, 7-hydroxy-2-propyl-, (2R,7S)-/cn  
E1 1 OCTANOIC ACID, 7-HYDROXY-2,2-DIMETHYL-/CN  
E2 1 OCTANOIC ACID, 7-HYDROXY-2-PROPYL-, (2R,7R)-/CN  
E3 1 --> OCTANOIC ACID, 7-HYDROXY-2-PROPYL-, (2R,7S)-/CN  
E4 1 OCTANOIC ACID, 7-HYDROXY-3,5,7-TRIMETHYL-/CN  
E5 1 OCTANOIC ACID, 7-HYDROXY-3,5,7-TRIMETHYL-, ACETATE/CN  
E6 1 OCTANOIC ACID, 7-HYDROXY-3,5,7-TRIMETHYL-, ERYTHRO-/CN  
E7 1 OCTANOIC ACID, 7-HYDROXY-3,5,7-TRIMETHYL-, METHYL ESTER/CN  
E8 1 OCTANOIC ACID, 7-HYDROXY-3,5,7-TRIMETHYL-, METHYL ESTER OF 3  
D,5D-/CN  
E9 1 OCTANOIC ACID, 7-HYDROXY-3,5,7-TRIMETHYL-, METHYL ESTER, ACE  
TATE/CN  
E10 1 OCTANOIC ACID, 7-HYDROXY-3,6-DIMETHYL-/CN  
E11 1 OCTANOIC ACID, 7-HYDROXY-3,7-DIMETHYL-/CN  
E12 1 OCTANOIC ACID, 7-HYDROXY-3,7-DIMETHYL-, 7-OCTENYL ESTER/CN

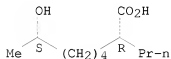
=> e3

L1 1 "OCTANOIC ACID, 7-HYDROXY-2-PROPYL-, (2R,7S)-"/CN

=> d 11

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2008 ACS on STN  
RN 824961-09-3 REGISTRY  
ED Entered STN: 03 Feb 2005  
CN Octanoic acid, 7-hydroxy-2-propyl-, (2R,7S)- (CA INDEX NAME)  
OTHER NAMES:  
CN (2R,7S)-7-Hydroxy-2-propyloctanoic acid  
FS STEREOSEARCH  
MF C11 H22 O3  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1907 TO DATE)  
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file caplus

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|----------------------|------------------|---------------|
| FULL ESTIMATED COST  | 7.61             | 7.82          |

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FILE COVERS 1907 - 12 Mar 2008 VOL 148 ISS 11  
FILE LAST UPDATED: 11 Mar 2008 (20080311/ED)

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<http://www.cas.org/infopolicy.html>

=> 11

L2 2 L1

=> d 12 1-2 ti fbib abs

L2 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2008 ACS on STN  
 TI Nerve regeneration promoters containing fatty acid compounds  
 AN 2005:316345 CAPLUS <<LOGINID::20080312>>  
 DN 142:379379  
 TI Nerve regeneration promoters containing fatty acid compounds  
 IN Tateishi, Narito; Yamamoto, Junki; Kawaharada, Soichi; Akiyama, Tsutomu;  
 Hoshikawa, Masamitsu  
 PA Ono Pharmaceutical Co., Ltd., Japan  
 SO PCT Int. Appl., 61 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

|    | PATENT NO.    | KIND   | DATE     | APPLICATION NO. | DATE       |
|----|---------------|--|----------|-----------------|------------|
| PI | WO 2005032535 | A1   | 20050414 | WO 2004-JP14879 | 20041001   |
|    | W:            | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LG, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW |          |                 |            |
|    | RW:           | BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG   |          |                 |            |
|    |               |  |          | JP 2003-345123  | A 20031003 |
|    |               |  |          | JP 2004-162909  | A 20040601 |
|    | EP 1685832    | A1   | 20060802 | EP 2004-792173  | 20041001   |
|    | R:            | AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK   |          |                 |            |
|    |               |  |          | JP 2003-345123  | A 20031003 |
|    |               |  |          | JP 2004-162909  | A 20040601 |
|    |               |  |          | WO 2004-JP14879 | W 20041001 |
|    | US 2007043114 | A1   | 20070222 | US 2006-574479  | 20061005   |
|    |               |  |          | JP 2003-345123  | A 20031003 |
|    |               |  |          | JP 2004-162909  | A 20040601 |
|    |               |  |          | WO 2004-JP14879 | W 20041001 |

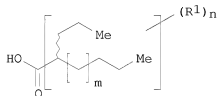
OS MARPAT 142:379379  
 AB Disclosed are nerve regeneration promoters containing fatty acid compds. especially  
 compds. R2C(R3)(R4)COR1 [R1 hydroxy; R2, R3 = H, C1, C3-10 alkyl, C3-10 alkenyl, etc.; R4 = (oxidized) C2-3 alkyl], salts thereof or prodrugs of the same. The compds. inhibit nerve cell death and promote the formation of new nerve cells and nerve cell regeneration and also promote the repair and regeneration of nerve tissues and functions through neurite extension, because of serving as a stem cell (nerve stem cell, embryonic stem cell, bone marrow cell, etc.) proliferation/differentiation promoter, a nerve cell precursor proliferation/differentiation promoter, a neurotrophic factor activity enhancer, a neurotrophic factor-like substance or a neurodegeneration inhibitor. Furthermore, these compds. are useful in preparing cells for transplantation (nerve stem cells, nerve cell precursors, nerve cells, etc.) from a brain tissue, bone marrow, embryonic stem cells, etc. At the same time, these compds. promote the take, proliferation, differentiation and function expression of transplanted cells, which makes them useful as preventives and/or remedies for neurodegenerative diseases. The effect of (2R)-2-propyloctanoic acid on nerve stem cell

differentiation in rats was examined  
 RE.CNT 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2008 ACS on STN  
 TI Preparation of branched carboxylic acid compound and use thereof  
 AN 2005:55187 CAPLUS <<LOGINID::20080312>>  
 DN 142:134202  
 TI Preparation of branched carboxylic acid compound and use thereof  
 IN Imawaka, Haruo; Hasegawa, Tomoyuki; Sakuyama, Shigeru; Kawanaka, Yasufumi;  
 Akiyama, Tsutomu; Hoshikawa, Masamitsu; Matsuda, Saiko  
 PA Ono Pharmaceutical Co., Ltd., Japan  
 SO PCT Int. Appl., 75 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

|    | PATENT NO.  | KIND | DATE     | APPLICATION NO.  | DATE   |
|----|---|------|----------|--|--|
| PI | WO 2005005366   | A1   | 20050120 | WO 2004-JP10366  | 20040714   |
|    | W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW |      |          |  |  |
|    | RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG  |      |          |  |  |
|    | EP 1650182  | A1   | 20060426 | JP 2003-274988<br>EP 2004-747782   | A 20030715<br>20040714   |
|    | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK   |      |          |  |  |
|    | US 2007167522   | A1   | 20070719 | JP 2003-274988<br>WO 2004-JP10366<br>US 2006-564720<br>JP 2003-274988<br>WO 2004-JP10366 | A 20030715<br>W 20040714<br>20060117<br>A 20030715<br>W 20040714 |

OS MARPAT 142:134202  
 GI



I

AB A branched alkanolic acid represented by the general formula (I) (wherein R1 = optionally protected hydroxy or oxo; a wavy line indicates a configuration,  $\beta$  configuration, or a mixture of these in an arbitrary proportion; n = an integer of 1 to 3; m = an integer of 0 to 10, provided that two or more R1's are not bonded to the same carbon atom other than the terminal carbon atoms), a salt of the compound, or a prodrug of either

is prepared The compound I is effective in, e.g., improving the function of astrocytes. It is useful as a preventive and/or therapeutic agent for brain infarction or nerve function disorders after brain infarction and for neurodegenerative diseases such as Parkinson's disease, Parkinson's syndrome, amyotrophic lateral sclerosis, and Alzheimer's disease. Thus, a solution of 31 g (4S)-N-[(2R)-7-oxo-2-propyloctanoyl]-4-isopropylloxazolidin-2-one in 310 mL THF and 31 mL H<sub>2</sub>O was treated with 45.3 mL 30 weight% H<sub>2</sub>O<sub>2</sub> at 6° and then dropwise with 100 mL 2 M aqueous LiOH at 5°, stirred at 24° for 3 h, treated dropwise with 300 mL 2 M NaNO<sub>2</sub>, stirred at 26° for 1 h to give, after workup and silica gel chromatog., (2R)-7-oxo-2-propyloctanoic acid (II). II at 30 µmol/L in vitro significantly reduced cellular S100β protein in astrocytes from 2,177.0±147.74 to 1,489.0±37.84 (ng/mg). Pharmaceutical formulations, e.g. tablet containing II, were prepared

RE.CNT 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> logoff hold  
COST IN U.S. DOLLARS

|            |         |
|------------|---------|
| SINCE FILE | TOTAL   |
| ENTRY      | SESSION |
| 8.70       | 16.52   |

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

|            |         |
|------------|---------|
| SINCE FILE | TOTAL   |
| ENTRY      | SESSION |
| -1.60      | -1.60   |

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SESSION WILL BE HELD FOR 120 MINUTES  
STN INTERNATIONAL SESSION SUSPENDED AT 08:00:02 ON 12 MAR 2008

Connecting via Winsock to STN

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LOGINID:SSSPTA1623PAZ

PASSWORD:

\* \* \* \* \* RECONNECTED TO STN INTERNATIONAL \* \* \* \* \*  
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|------------|---------|
| SINCE FILE | TOTAL   |
| ENTRY      | SESSION |
| 8.70       | 16.52   |

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

|            |         |
|------------|---------|
| SINCE FILE | TOTAL   |
| ENTRY      | SESSION |
| -1.60      | -1.60   |

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COST IN U.S. DOLLARS

|            |         |
|------------|---------|
| SINCE FILE | TOTAL   |
| ENTRY      | SESSION |
| 8.70       | 16.52   |

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

|            |         |
|------------|---------|
| SINCE FILE | TOTAL   |
| ENTRY      | SESSION |
| -1.60      | -1.60   |

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STRUCTURE FILE UPDATES: 11 MAR 2008 HIGHEST RN 1007457-12-6  
DICTIONARY FILE UPDATES: 11 MAR 2008 HIGHEST RN 1007457-12-6

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TSCA INFORMATION NOW CURRENT THROUGH January 9, 2008.

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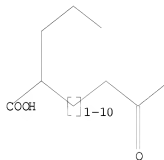
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experimental property data in the original document. For information  
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>  
Uploading C:\Documents and Settings\PZucker\My Documents\Examination Auxillary  
files\10564720\10564720 amended try 1.str

L3 STRUCTURE UPLOADED

=> d l3  
L3 HAS NO ANSWERS  
L3 STR



Structure attributes must be viewed using STN Express query preparation.

=> search l3 sss sam  
SAMPLE SEARCH INITIATED 08:35:38 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 24300 TO ITERATE

8.2% PROCESSED 2000 ITERATIONS 0 ANSWERS  
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 476671 TO 495329  
PROJECTED ANSWERS: 0 TO 0

L4 0 SEA SSS SAM L3

=> search l3 sss full  
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FULL SCREEN SEARCH COMPLETED - 482924 TO ITERATE

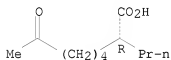
100.0% PROCESSED 482924 ITERATIONS 4 ANSWERS  
SEARCH TIME: 00.00.05

L5 4 SEA SSS FUL L3

=> d scan

L5 4 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN  
IN Octanoic acid, 7-oxo-2-propyl-, (2R)-  
MF C11 H20 O3  
CI COM

Absolute stereochemistry.

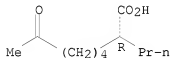


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):4

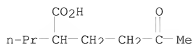
L5 4 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN  
IN Octanoic acid, 7-oxo-2-propyl-, sodium salt, (2R)- (9CI)  
MF C11 H20 O3 . Na

Absolute stereochemistry.



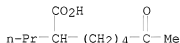
● Na

L5 4 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN  
IN Hexanoic acid, 5-oxo-2-propyl-  
MF C9 H16 O3



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L5 4 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN  
 IN Octanoic acid, 7-oxo-2-propyl-  
 MF C11 H20 O3



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

ALL ANSWERS HAVE BEEN SCANNED

=> file caplus  
 COST IN U.S. DOLLARS  
 FULL ESTIMATED COST

| SINCE FILE | TOTAL   |
|------------|---------|
| ENTRY      | SESSION |
| 178.82     | 195.34  |

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)  
 CA SUBSCRIBER PRICE

| SINCE FILE | TOTAL   |
|------------|---------|
| ENTRY      | SESSION |
| 0.00       | -1.60   |

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FILE COVERS 1907 - 12 Mar 2008 VOL 148 ISS 11  
 FILE LAST UPDATED: 11 Mar 2008 (20080311/ED)

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=> 15

L6 6 L5

=> d 16 1-6 ti fbib abs

L6 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN  
 TI Nerve regeneration promoters containing fatty acid compounds  
 AN 2005:316345 CAPLUS <<LOGINID::20080312>>  
 DN 142:379379  
 TI Nerve regeneration promoters containing fatty acid compounds  
 IN Tateishi, Narito; Yamamoto, Junki; Kawaharada, Soichi; Akiyama, Tsutomu;  
 Hoshikawa, Masamitsu  
 PA Ono Pharmaceutical Co., Ltd., Japan  
 SO PCT Int. Appl., 61 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

|    | PATENT NO.    | KIND   | DATE     | APPLICATION NO. | DATE       |
|----|---------------|--|----------|-----------------|------------|
| PI | WO 2005032535 | A1   | 20050414 | WO 2004-JP14879 | 20041001   |
|    | W:            | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW |          |                 |            |
|    | RW:           | BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG   |          |                 |            |
|    |               |  |          | JP 2003-345123  | A 20031003 |
|    |               |  |          | JP 2004-162909  | A 20040601 |
|    | EP 1685832    | A1   | 20060802 | EP 2004-792173  | 20041001   |
|    | R:            | AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK   |          |                 |            |
|    |               |  |          | JP 2003-345123  | A 20031003 |
|    |               |  |          | JP 2004-162909  | A 20040601 |
|    |               |  |          | WO 2004-JP14879 | W 20041001 |
|    | US 2007043114 | A1   | 20070222 | US 2006-574479  | 20061005   |
|    |               |  |          | JP 2003-345123  | A 20031003 |
|    |               |  |          | JP 2004-162909  | A 20040601 |
|    |               |  |          | WO 2004-JP14879 | W 20041001 |

OS MARPAT 142:379379

AB Disclosed are nerve regeneration promoters containing fatty acid compds. especially

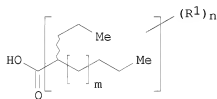
compds. R2C(R3)(R4)COR1 [R1 hydroxy; R2, R3 = H, C1, C3-10 alkyl, C3-10 alkenyl, etc.; R4 = (oxidized) C2-3 alkyl], salts thereof or prodrugs of the same. The compds. inhibit nerve cell death and promote the formation of new nerve cells and nerve cell regeneration and also promote the repair and regeneration of nerve tissues and functions through neurite extension, because of serving as a stem cell (nerve stem cell, embryonic stem cell, bone marrow cell, etc.) proliferation/differentiation promoter, a nerve cell precursor proliferation/differentiation promoter, a neurotrophic factor activity enhancer, a neurotrophic factor-like substance or a neurodegeneration inhibitor. Furthermore, these compds. are useful in preparing cells for transplantation (nerve stem cells, nerve cell precursors, nerve cells, etc.) from a brain tissue, bone marrow, embryonic stem cells, etc. At the same time, these compds. promote the take, proliferation, differentiation and function expression of transplanted cells, which makes

them useful as preventives and/or remedies for neurodegenerative diseases.  
The effect of (2R)-2-propyloctanoic acid on nerve stem cell  
differentiation in rats was examined

RE.CNT 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN  
TI Preparation of branched carboxylic acid compound and use thereof  
AN 2005:55187 CAPLUS <<LOGINID:20080312>>  
DN 142:134202  
TI Preparation of branched carboxylic acid compound and use thereof  
IN Imawaka, Haruo; Hasegawa, Tomoyuki; Sakuyama, Shigeru; Kawanaka, Yasufumi;  
Akiyama, Tsutomu; Hoshikawa, Masamitsu; Matsuda, Saiko  
PA Ono Pharmaceutical Co., Ltd., Japan  
SO PCT Int. Appl., 75 pp.  
CODEN: PIXXD2  
DT Patent  
LA Japanese  
FAN.CNT 1

| PATENT NO.   | KIND | DATE     | APPLICATION NO. | DATE       |
|--|------|----------|-----------------|------------|
| WO 2005005366  | A1   | 20050120 | WO 2004-JP10366 | 20040714   |
| <p>W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW</p> <p>RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG</p> |      |          |                 |            |
| EP 1650182   | A1   | 20060426 | JP 2003-274988  | A 20030715 |
| <p>R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK</p> <p>JP 2003-274988 A 20030715</p> <p>WO 2004-JP10366 W 20040714</p>  |      |          |                 |            |
| US 2007167522  | A1   | 20070719 | US 2006-564720  | 20060117   |
| <p>JP 2003-274988 A 20030715</p> <p>WO 2004-JP10366 W 20040714</p>   |      |          |                 |            |
| <p>OS MARPAT 142:134202</p> <p>GI</p>  |      |          |                 |            |



I

AB A branched alkanolic acid represented by the general formula (I) (wherein  
R1 = optionally protected hydroxy or oxo; a wavy line indicates a  
configuration,  $\beta$  configuration, or a mixture of these in an arbitrary  
proportion; n = an integer of 1 to 3; m = an integer of 0 to 10, provided

that two or more R1's are not bonded to the same carbon atom other than the terminal carbon atoms), a salt of the compound, or a prodrug of either is prepared. The compound I is effective in, e.g., improving the function of astrocytes. It is useful as a preventive and/or therapeutic agent for brain infarction or nerve function disorders after brain infarction and for neurodegenerative diseases such as Parkinson's disease, Parkinson's syndrome, amyotrophic lateral sclerosis, and Alzheimer's disease. Thus, a solution of 31 g (4S)-N-[(2R)-7-oxo-2-propyloctanoyl]-4-isopropylloxazolidin-2-one in 310 mL THF and 31 mL H<sub>2</sub>O was treated with 45.3 mL 30 weight% H<sub>2</sub>O<sub>2</sub> at 6° and then dropwise with 100 mL 2 M aqueous LiOH at 5°, stirred at 24° for 3 h, treated dropwise with 300 mL 2 M NaNO<sub>2</sub>, stirred at 26° for 1 h to give, after workup and silica gel chromatog., (2R)-7-oxo-2-propyloctanoic acid (II). II at 30 µmol/L in vitro significantly reduced cellular S100β protein in astrocytes from 2,177.0±147.74 to 1,489.0±37.84 (ng/mg). Pharmaceutical formulations, e.g. tablet containing II, were prepared

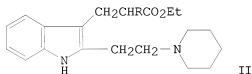
RE.CNT 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2008 ACS on SIN  
TI Reaction of carbocations derived from alkane and alkyl methyl ketones with carbon monoxide in superacid  
AN 1984:406579 CAPLUS <<LOGINID::20080312>>  
DN 101:6579  
OREF 101:1119a,1122a  
TI Reaction of carbocations derived from alkane and alkyl methyl ketones with carbon monoxide in superacid  
AU Yoneda, Norihiko; Sato, Haruhiko; Fukuhara, Tsuyoski; Suzuki, Akira; Takahashi, Yukio  
CS Dep. Appl. Chem., Hokkaido Univ., Sapporo, 060, Japan  
SO Preprints - American Chemical Society, Division of Petroleum Chemistry (1983), 28(2), 397-404  
CODEN: ACPCAT; ISSN: 0569-3799  
DT Journal  
LA English  
AB Fifteen C5-C9 alkanes, e.g. pentane, Me<sub>2</sub>CH<sub>2</sub>Et, hexane, Et<sub>2</sub>CH Me, heptane, Me<sub>2</sub>CHCH<sub>2</sub>CHMe<sub>2</sub>, octane, and nonane, were ionized with HF-SbF<sub>5</sub> to give alkyl cations which were trapped with CO to give carboxylic acids, e.g. EtCO<sub>2</sub>H, Me<sub>2</sub>CHCO<sub>2</sub>H, Me<sub>3</sub>CCO<sub>2</sub>H, EtCHMeCO<sub>2</sub>H, Me<sub>2</sub>CHCHMeCO<sub>2</sub>H, PrCHMeCO<sub>2</sub>H, PrCMe<sub>2</sub>CO<sub>2</sub>H, Me<sub>2</sub>CHCH<sub>2</sub>CHMeCO<sub>2</sub>H, BuCHMeCO<sub>2</sub>H. The carboxylation of Me ketones MeCO(CH<sub>2</sub>)<sub>n</sub>CHMe<sub>2</sub> (n = 2-6), 2-heptanone, and 2-nonanone in a similar manner to give carboxylic acids, e.g. MeCO(CH<sub>2</sub>)<sub>n</sub>CHMeCO<sub>2</sub>H (n = 2-6) and MeCO(CH<sub>2</sub>)<sub>n</sub>CMe<sub>2</sub>CO<sub>2</sub>H (n = 4-6), was also investigated. A mechanism was discussed.

L6 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2008 ACS on SIN  
TI Reaction behavior of carbon-carbon and carbon-hydrogen bonds in super acids. Carboxylation of alkyl methyl ketones with carbon monoxide and water  
AN 1983:125372 CAPLUS <<LOGINID::20080312>>  
DN 98:125372  
OREF 98:19087a,19090a  
TI Reaction behavior of carbon-carbon and carbon-hydrogen bonds in super acids. Carboxylation of alkyl methyl ketones with carbon monoxide and water  
AU Yoneda, Norihiko; Sato, Haruhiko; Fukuhara, Tsuyoshi; Takahashi, Yukio; Suzuki, Akira  
CS Fac. Eng., Hokkaido Univ., Sapporo, 060, Japan  
SO Chemistry Letters (1983), (1), 19-20  
CODEN: CMLTAG; ISSN: 0366-7022  
DT Journal

LA English  
 AB In a HF-SbF<sub>5</sub> solution at -20 to +30° under atmospheric pressure, ketones having alkyl groups with ≥5 C atoms underwent carboxylation to give the corresponding oxocarboxylic acids without any β-scission processes which occur readily in alkyl cations derived by protolysis of alkanes with ≥7 C atoms. Tertiary C-H bond located at δ or further away from the oxo group in the substrates could react exclusively to give (α-1)-oxo-2,2-dimethylcarboxylic acids at -20°.

L6 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN  
 TI Amino ketone derivatives. 2-Substituted 5-oxo-7-aminoenanthic acids and some indole derivatives obtained from them  
 AN 1977:422946 CAPLUS <<LOGINID::20080312>>  
 DN 87:22946  
 OREF 87:3621a,3624a  
 TI Amino ketone derivatives. 2-Substituted 5-oxo-7-aminoenanthic acids and some indole derivatives obtained from them  
 AU Akopyan, Zh. G.; Tatevosyan, G. T.  
 CS Inst. Tonkoi Org. Khim. im. Mndzhoyana, Yerevan, USSR  
 SO Armyanskii Khimicheskii Zhurnal (1976), 29(12), 1039-42  
 CODEN: AYKZAN; ISSN: 0515-9628  
 DT Journal  
 LA Russian  
 OS CASREACT 87:22946  
 GI



AB Treatment of HO<sub>2</sub>CCH<sub>2</sub>CHCH<sub>2</sub>CH<sub>2</sub>COMe (R = H, Me, Et, Pr) with R<sub>2</sub>NH.HCl [R<sub>2</sub> = Me<sub>2</sub>, Et<sub>2</sub>, (CH<sub>2</sub>)<sub>5</sub>] and CH<sub>2</sub>O gave 36-56.7% HO<sub>2</sub>CCH<sub>2</sub>CHCH<sub>2</sub>CH<sub>2</sub>COCH<sub>2</sub>CH<sub>2</sub>NR<sub>2</sub>.1.HCl (I). I (R = H, Me; NR<sub>2</sub> = piperidino) phenylhydrazones were cyclized by the Fischer reaction to give isotryptamine derivs. (II), which had weak sympatholytic and adrenolytic properties. I had no analgesic properties.

L6 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN  
 TI Synthesis of unsaturated δ-lactones. II. Synthesis and reactions of 3-alkyl(benzyl)-6-methyl-3,4-dihydro-α-pyrone  
 AN 1966:429102 CAPLUS <<LOGINID::20080312>>  
 DN 65:29102  
 OREF 65:5359h,5360a-e  
 TI Synthesis of unsaturated δ-lactones. II. Synthesis and reactions of 3-alkyl(benzyl)-6-methyl-3,4-dihydro-α-pyrone  
 AU Zalinyan, M. G.; Arutyunyan, E. A.; Torchyan, R. O.; Sarkisyan, O. A.; Dangyan, M. T.  
 CS State Univ., Erevan  
 SO Izvestiya Akademii Nauk Armyanskoi SSR, Khimicheskie Nauki (1965), 18(6), 600-5  
 CODEN: IARKAZ; ISSN: 0367-6846  
 DT Journal  
 LA Russian  
 GI For diagram(s), see printed CA Issue.  
 AB cf. CA 63, 6954b. To 0.14 mole MeCCl:CHCH<sub>2</sub>CH<sub>2</sub>CR(CO<sub>2</sub>Et)<sub>2</sub>, cooled (ice-NaCl), gradually with stirring was added 37.4 ml. H<sub>2</sub>SO<sub>4</sub>. After evolution of HCl

ceased 120 ml. H<sub>2</sub>O was added with cooling and the oily layer separated to give Ac(CH<sub>2</sub>)<sub>2</sub>CR(CO<sub>2</sub>Et)<sub>2</sub> (I) the following I were prepared (R, % yield, b.p./mm., n<sub>D</sub>20, d<sub>20</sub> and MR<sub>20D</sub> given): Me, 62, 126-30.5°/3, 1.4400, 1.065, 60.40°; Et, 75.2, 149-52.7°/7, 1.4428, 1.0431, 65.54°; Pr, 77, 151-5°/7, 1.4422, 1.0304, 69.75°; iso-Am, 49.1, 165-8°/10, 1.4438, 1.0058, 79.10°. I (1 mole) and 4 moles NaOH in 160 ml. H<sub>2</sub>O was refluxed on a water bath 3-6 hrs. The solid formed was dissolved in 200 ml. H<sub>2</sub>O, the water layer extracted with Et<sub>2</sub>O, acidified with HCl, and the oily layer which separated subjected to decarboxylation by heating to yield Ac(CH<sub>2</sub>)<sub>2</sub>CHRCO<sub>2</sub>H (II). The following II were prepared (same data given): Et, 52, 146-8°/7, 1.4465, -, -; Pr, 49, 151-4°/6, 1.4525, 1.0206, 45.36°; iso-Bu, 57.2, 145-52°/5-5.5, 1.4539, 1.0220, 50.35°; iso-C<sub>5</sub>H<sub>11</sub>, 63.3, 162-6°/6-7, -, (n<sub>D</sub>17D 1.4520), -, -. II (1 mole) and 5-6 moles Ac<sub>2</sub>O was boiled 3-7 hrs., the Ac<sub>2</sub>O and AcOH stripped, and the residue cooled to give III. The following III were prepared (same data given): Et, 59, 83-4°/7, 1.4595, 1.020, 38.24°; Pr, 46, 96-9°/6, 1.4608, 0.992, 42.41°; iso-Bu (IIIa), 74.2, 92-6°/4, 1.4580, 0.9745, 47.03°; iso-Am, 62, 116-20°/7.5, 1.4533, 0.9645, 51.30°; PhCH<sub>2</sub> (IIIb), 68.2, 175-8°/10, 1.5329, 1.0870, 57.66°. Dry HCl was passed through a solution of 0.05 mole III in 20 ml. absolute EtOH with cooling to complete saturation and 50 ml. H<sub>2</sub>O added.

The

oily layer formed was separated to give Ac(CH<sub>2</sub>)<sub>2</sub>CHRCO<sub>2</sub>Et (IV). The following IV were prepared (same data given): Et, 64.1, 97-100°/7, 1.4288, 0.9549, 50.12°; Pr, 50.5, 110-12°/6, 1.4284, 0.9497, 54.26°; iso-Bu, 57.9, 100-3°/5, 1.4340, 0.9316, 59.63°; iso-Am, 53.6, 119-22°/5, 1.4433, 0.9440, 64.04°. A mixture of 1 g. III and 5-6 ml. concentrated aqueous NH<sub>3</sub> was shaken, forming crystals of Ac(CH<sub>2</sub>)<sub>2</sub>CHRCO<sub>2</sub>NH<sub>2</sub> (V). The following V were prepared (R, % yield, and m.p. given): Et, 53.2, 91° (petr. ether); Pr, 58, 122-3° (H<sub>2</sub>O); iso-Bu, 72.7, 108 (petr. ether); PhCH<sub>2</sub>, 74, 146° (H<sub>2</sub>O). To a solution of 0.05 mole IIIa in Et<sub>2</sub>O was added with cooling 2.9 g. Br in Et<sub>2</sub>O to give 2.7 g. VI (R = iso-Bu) (VIa), b<sub>5</sub> 114-20°, n<sub>D</sub>20 1.4970. VIa was treated with H<sub>2</sub>O at room temperature, and heated on a water bath with AcONa to give VII (R = iso-Bu), b<sub>9-10</sub> 135-8°, n<sub>D</sub>20 1.4603. Similarly from 4 g. IIIb in 5 ml. Et<sub>2</sub>O and 3.2 g. Br there was obtained 3.2 g. VI (R = PhCH<sub>2</sub>), b<sub>3</sub> 149-56, n<sub>D</sub>20 1.5605. The product was heated on a water bath with AcONa to give VII (R = PhCH<sub>2</sub>), b<sub>8</sub> 200-3° n<sub>D</sub>20 1.5308.

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=> file reg

COST IN U.S. DOLLARS

|            |         |
|------------|---------|
| SINCE FILE | TOTAL   |
| ENTRY      | SESSION |

FULL ESTIMATED COST

|       |        |
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| 30.90 | 226.24 |
|-------|--------|

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

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| SINCE FILE | TOTAL   |
| ENTRY      | SESSION |

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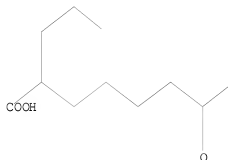
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L7 STRUCTURE UPLOADED

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L7 HAS NO ANSWERS

L7 STR



Structure attributes must be viewed using STN Express query preparation.

=> search l7 sss sam

SAMPLE SEARCH INITIATED 08:54:03 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 24579 TO ITERATE

8.1% PROCESSED 2000 ITERATIONS 0 ANSWERS  
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 482198 TO 500962  
PROJECTED ANSWERS: 0 TO 0

L8 0 SEA SSS SAM L7

=> search l7 sss full

FULL SEARCH INITIATED 08:54:12 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 488660 TO ITERATE

100.0% PROCESSED 488660 ITERATIONS  
SEARCH TIME: 00.00.04

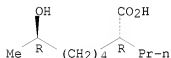
2 ANSWERS

L9 2 SEA SSS FUL L7

=> d scan

L9 2 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN  
IN Octanoic acid, 7-hydroxy-2-propyl-, (2R,7R)-  
MF C11 H22 O3

Absolute stereochemistry.

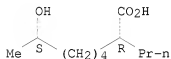


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

L9 2 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN  
IN Octanoic acid, 7-hydroxy-2-propyl-, (2R,7S)-  
MF C11 H22 O3

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

ALL ANSWERS HAVE BEEN SCANNED

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COST IN U.S. DOLLARS

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|------------|---------|
| ENTRY      | SESSION |

FULL ESTIMATED COST

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|--------|--------|
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|--------|--------|

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

| SINCE FILE | TOTAL   |
|------------|---------|
| ENTRY      | SESSION |

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FILE LAST UPDATED: 11 Mar 2008 (20080311/ED)

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=> 19

L10 2 L9

=> d l10 1-2 ti fbib abs

L10 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2008 ACS on STN  
TI Nerve regeneration promoters containing fatty acid compounds  
AN 2005:316345 CAPLUS <<LOGINID:20080312>>  
DN 142:379379  
TI Nerve regeneration promoters containing fatty acid compounds  
IN Tateishi, Narito; Yamamoto, Junki; Kawaharada, Soichi; Akiyama, Tsutomu; Hoshikawa, Masamitsu  
PA Ono Pharmaceutical Co., Ltd., Japan  
SO PCT Int. Appl., 61 pp.  
CODEN: PIXXD2  
DT Patent  
LA Japanese  
FAN.CNT 1

|               | PATENT NO.  | KIND     | DATE           | APPLICATION NO. | DATE       |
|---------------|---|----------|----------------|-----------------|------------|
| PI            | WO 2005032535   | A1       | 20050414       | WO 2004-JP14879 | 20041001   |
|               | W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW |          |                |                 |            |
|               | RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG  |          |                |                 |            |
|               |   |          |                | JP 2003-345123  | A 20031003 |
|               |   |          |                | JP 2004-162909  | A 20040601 |
| EP 1685832    | A1  | 20060802 | EP 2004-792173 |                 | 20041001   |
|               | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK   |          |                |                 |            |
|               |   |          |                | JP 2003-345123  | A 20031003 |
|               |   |          |                | JP 2004-162909  | A 20040601 |
|               |   |          |                | WO 2004-JP14879 | W 20041001 |
| US 2007043114 | A1  | 20070222 | US 2006-574479 |                 | 20061005   |
|               |   |          | JP 2003-345123 |                 | A 20031003 |

JP 2004-162909 A 20040601  
WO 2004-JP14879 W 20041001

OS MARPAT 142:379379

AB Disclosed are nerve regeneration promoters containing fatty acid compds. especially

compds. R2C(R3)(R4)COR1 [R1 hydroxy; R2, R3 = H, C1, C3-10 alkyl, C3-10 alkenyl, etc.; R4 = (oxidized) C2-3 alkyl], salts thereof or prodrugs of the same. The compds. inhibit nerve cell death and promote the formation of new nerve cells and nerve cell regeneration and also promote the repair and regeneration of nerve tissues and functions through neurite extension, because of serving as a stem cell (nerve stem cell, embryonic stem cell, bone marrow cell, etc.) proliferation/differentiation promoter, a nerve cell precursor proliferation/differentiation promoter, a neurotrophic factor activity enhancer, a neurotrophic factor-like substance or a neurodegeneration inhibitor. Furthermore, these compds. are useful in preparing cells for transplantation (nerve stem cells, nerve cell precursors, nerve cells, etc.) from a brain tissue, bone marrow, embryonic stem cells, etc. At the same time, these compds. promote the take, proliferation, differentiation and function expression of transplanted cells, which makes them useful as preventives and/or remedies for neurodegenerative diseases. The effect of (2R)-2-propyloctanoic acid on nerve stem cell differentiation in rats was examined

RE.CNT 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2008 ACS on STN

TI Preparation of branched carboxylic acid compound and use thereof

AN 2005:55187 CAPLUS <<LOGINID::20080312>>

DN 142:134202

TI Preparation of branched carboxylic acid compound and use thereof

IN Imawaka, Haruo; Hasegawa, Tomoyuki; Sakuyama, Shigeru; Kawanaka, Yasufumi; Akiyama, Tsutomu; Hoshikawa, Masamitsu; Matsuda, Saiko

PA Ono Pharmaceutical Co., Ltd., Japan

SO PCT Int. Appl., 75 pp.

CODEN: PIXXD2

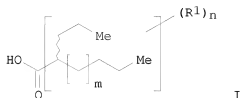
DT Patent

LA Japanese

FAN.CNT 1

|    | PATENT NO.    | KIND   | DATE     | APPLICATION NO. | DATE       |
|----|---------------|--|----------|-----------------|------------|
| PI | WO 2005005366 | A1   | 20050120 | WO 2004-JP10366 | 20040714   |
|    | W:            | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW |          |                 |            |
|    | RW:           | BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG   |          |                 |            |
|    | EP 1650182    | A1   | 20060426 | JP 2003-274988  | A 20030715 |
|    | R:            | AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK   |          | EP 2004-747782  | 20040714   |
|    |               |  |          | JP 2003-274988  | A 20030715 |
|    |               |  |          | WO 2004-JP10366 | W 20040714 |
|    | US 2007167522 | A1   | 20070719 | US 2006-564720  | 20060117   |
|    |               |  |          | JP 2003-274988  | A 20030715 |
|    |               |  |          | WO 2004-JP10366 | W 20040714 |

OS MARPAT 142:134202  
GI



AB A branched alkanolic acid represented by the general formula (I) (wherein R1 = optionally protected hydroxy or oxo; a wavy line indicates  $\alpha$  configuration,  $\beta$  configuration, or a mixture of these in an arbitrary proportion; n = an integer of 1 to 3; m = an integer of 0 to 10, provided that two or more R1's are not bonded to the same carbon atom other than the terminal carbon atoms), a salt of the compound, or a prodrug of either is prepared. The compound I is effective in, e.g., improving the function of astrocytes. It is useful as a preventive and/or therapeutic agent for brain infarction or nerve function disorders after brain infarction and for neurodegenerative diseases such as Parkinson's disease, Parkinson's syndrome, amyotrophic lateral sclerosis, and Alzheimer's disease. Thus, a solution of 31 g (4S)-N-[(2R)-7-oxo-2-propyloctanoyl]-4-isopropylloxazolidin-2-one in 310 mL THF and 31 mL H<sub>2</sub>O was treated with 45.3 mL 30 weight% H<sub>2</sub>O<sub>2</sub> at 6° and then dropwise with 100 mL 2 M aqueous LiOH at 5°, stirred at 24° for 3 h, treated dropwise with 300 mL 2 M NaNO<sub>2</sub>, stirred at 26° for 1 h to give, after workup and silica gel chromatog., (2R)-7-oxo-2-propyloctanoic acid (II). II at 30  $\mu$ mol/L in vitro significantly reduced cellular S100 $\beta$  protein in astrocytes from 2,177.0 $\pm$ 147.74 to 1,489.0 $\pm$ 37.84 (ng/mg). Pharmaceutical formulations, e.g. tablet containing II, were prepared

RE.CNT 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> logoff hold

COST IN U.S. DOLLARS

| SINCE FILE | TOTAL   |
|------------|---------|
| ENTRY      | SESSION |
| 8.22       | 413.28  |

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

| SINCE FILE | TOTAL   |
|------------|---------|
| ENTRY      | SESSION |
| -1.60      | -8.00   |

CA SUBSCRIBER PRICE

SESSION WILL BE HELD FOR 120 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 08:57:44 ON 12 MAR 2008

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:

\* \* \* \* \* RECONNECTED TO STN INTERNATIONAL \* \* \* \* \*  
SESSION RESUMED IN FILE 'CAPLUS' AT 08:59:19 ON 12 MAR 2008  
FILE 'CAPLUS' ENTERED AT 08:59:19 ON 12 MAR 2008  
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|  |            |         |
|--|------------|---------|
| COST IN U.S. DOLLARS                       | SINCE FILE | TOTAL   |
|  | ENTRY      | SESSION |
| FULL ESTIMATED COST                        | 8.22       | 413.28  |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE | TOTAL   |
|  | ENTRY      | SESSION |
| CA SUBSCRIBER PRICE                        | -1.60      | -8.00   |

=> file reg

|  |            |         |
|--|------------|---------|
| COST IN U.S. DOLLARS                       | SINCE FILE | TOTAL   |
|  | ENTRY      | SESSION |
| FULL ESTIMATED COST                        | 8.70       | 413.76  |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE | TOTAL   |
|  | ENTRY      | SESSION |
| CA SUBSCRIBER PRICE                        | -1.60      | -8.00   |

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Property values tagged with IC are from the ZIC/VINITI data file  
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STRUCTURE FILE UPDATES: 11 MAR 2008 HIGHEST RN 1007457-12-6  
DICTIONARY FILE UPDATES: 11 MAR 2008 HIGHEST RN 1007457-12-6

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TSCA INFORMATION NOW CURRENT THROUGH January 9, 2008.

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

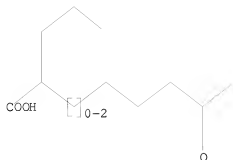
REGISTRY includes numerically searchable data for experimental and  
predicted properties as well as tags indicating availability of  
experimental property data in the original document. For information  
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stdoc/properties.html>

=>  
Uploading C:\Documents and Settings\PZucker\My Documents\Examination Auxillary  
files\10564720\10564720 obvious c1m 7.str

L11 STRUCTURE UPLOADED

=> d l11  
L11 HAS NO ANSWERS  
L11 STR



Structure attributes must be viewed using STN Express query preparation.

```
=> search l11 sss sam
SAMPLE SEARCH INITIATED 09:00:08 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 23910 TO ITERATE

8.4% PROCESSED      2000 ITERATIONS                      0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01
```

```
FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:   468946 TO 487454
PROJECTED ANSWERS:      0 TO      0
```

L12            0 SEA SSS SAM L11

```
=> search l11 sss full
FULL SEARCH INITIATED 09:00:17 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 475251 TO ITERATE

100.0% PROCESSED 475251 ITERATIONS                      2 ANSWERS
SEARCH TIME: 00.00.04
```

L13            2 SEA SSS FUL L11

```
=> logoff hold
COST IN U.S. DOLLARS                                        SINCE FILE            TOTAL
                                                                ENTRY        SESSION
FULL ESTIMATED COST                                        178.82            592.58

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)            SINCE FILE            TOTAL
                                                                ENTRY        SESSION
CA SUBSCRIBER PRICE                                        0.00            -8.00
```

SESSION WILL BE HELD FOR 120 MINUTES  
 STN INTERNATIONAL SESSION SUSPENDED AT 09:00:35 ON 12 MAR 2008  
 Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:

\* \* \* \* \* RECONNECTED TO STN INTERNATIONAL \* \* \* \* \*  
SESSION RESUMED IN FILE 'REGISTRY' AT 09:01:47 ON 12 MAR 2008  
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|  |            |         |
|--|------------|---------|
| COST IN U.S. DOLLARS                       | SINCE FILE | TOTAL   |
|  | ENTRY      | SESSION |
| FULL ESTIMATED COST                        | 178.82     | 592.58  |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE | TOTAL   |
|  | ENTRY      | SESSION |
| CA SUBSCRIBER PRICE                        | 0.00       | -8.00   |

=>

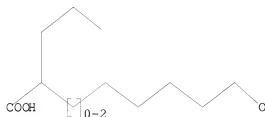
Uploading C:\Documents and Settings\PZucker\My Documents\Examination Auxillary  
files\10564720\10564720 pt 2 obvious c1m 7.str

L14 STRUCTURE UPLOADED

=> d l14

L14 HAS NO ANSWERS

L14 STR



Structure attributes must be viewed using STN Express query preparation.

=> search l14 sss sam

SAMPLE SEARCH INITIATED 09:02:39 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 23910 TO ITERATE

8.4% PROCESSED 2000 ITERATIONS 0 ANSWERS  
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 468946 TO 487454  
PROJECTED ANSWERS: 0 TO 0

L15 0 SEA SSS SAM L14

=> search l14 sss full

FULL SEARCH INITIATED 09:02:49 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 475251 TO ITERATE

100.0% PROCESSED 475251 ITERATIONS 0 ANSWERS  
SEARCH TIME: 00.00.04

L16 0 SEA SSS FUL L14

=> logoff hold  
COST IN U.S. DOLLARS

| SINCE FILE | TOTAL   |
|------------|---------|
| ENTRY      | SESSION |
| 358.10     | 771.86  |

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

| SINCE FILE | TOTAL   |
|------------|---------|
| ENTRY      | SESSION |
| 0.00       | -8.00   |

CA SUBSCRIBER PRICE

SESSION WILL BE HELD FOR 120 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 09:03:19 ON 12 MAR 2008

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:

\* \* \* \* \* RECONNECTED TO STN INTERNATIONAL \* \* \* \* \*  
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FILE 'REGISTRY' ENTERED AT 10:28:54 ON 12 MAR 2008  
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COST IN U.S. DOLLARS

| SINCE FILE | TOTAL   |
|------------|---------|
| ENTRY      | SESSION |
| 358.10     | 771.86  |

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

| SINCE FILE | TOTAL   |
|------------|---------|
| ENTRY      | SESSION |
| 0.00       | -8.00   |

CA SUBSCRIBER PRICE

=> logoff hold

COST IN U.S. DOLLARS

| SINCE FILE | TOTAL   |
|------------|---------|
| ENTRY      | SESSION |
| 358.56     | 772.32  |

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

| SINCE FILE | TOTAL   |
|------------|---------|
| ENTRY      | SESSION |
| 0.00       | -8.00   |

CA SUBSCRIBER PRICE

SESSION WILL BE HELD FOR 120 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 10:29:19 ON 12 MAR 2008

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:

\* \* \* \* \* RECONNECTED TO STN INTERNATIONAL \* \* \* \* \*

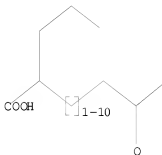
SESSION RESUMED IN FILE 'REGISTRY' AT 11:00:20 ON 12 MAR 2008  
FILE 'REGISTRY' ENTERED AT 11:00:20 ON 12 MAR 2008  
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|  |            |         |
|--|------------|---------|
| COST IN U.S. DOLLARS                       | SINCE FILE | TOTAL   |
| FULL ESTIMATED COST                        | ENTRY      | SESSION |
|  | 358.56     | 772.32  |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE | TOTAL   |
| CA SUBSCRIBER PRICE                        | ENTRY      | SESSION |
|  | 0.00       | -8.00   |

=>  
Uploading C:\Documents and Settings\PZucker\My Documents\Examination Auxillary  
files\10564720\10564720 c1m 6.str

L17 STRUCTURE UPLOADED

=> d l17  
L17 HAS NO ANSWERS  
L17 STR



Structure attributes must be viewed using STN Express query preparation.

=> search l17 sss sam  
SAMPLE SEARCH INITIATED 11:00:55 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 24300 TO ITERATE

8.2% PROCESSED 2000 ITERATIONS 0 ANSWERS  
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 476671 TO 495329  
PROJECTED ANSWERS: 0 TO 0

L18 0 SEA SSS SAM L17

=> search l17 sss full  
FULL SEARCH INITIATED 11:01:08 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 482924 TO ITERATE

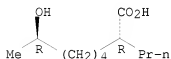
100.0% PROCESSED 482924 ITERATIONS 2 ANSWERS  
SEARCH TIME: 00.00.04

L19 2 SEA SSS FUL L17

=> d scan

L19 2 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN  
IN Octanoic acid, 7-hydroxy-2-propyl-, (2R,7R)-  
MF C11 H22 O3

Absolute stereochemistry.

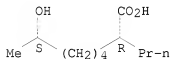


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

L19 2 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN  
IN Octanoic acid, 7-hydroxy-2-propyl-, (2R,7S)-  
MF C11 H22 O3

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

ALL ANSWERS HAVE BEEN SCANNED

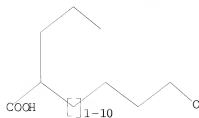
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Uploading C:\Documents and Settings\PZucker\My Documents\Examination Auxillary  
files\10564720\10564720 Prt bclm 6.str

L20 STRUCTURE UPLOADED

=> d 120

L20 HAS NO ANSWERS  
L20 STR



Structure attributes must be viewed using STN Express query preparation.

=>

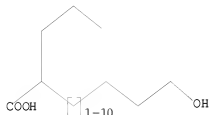
Uploading C:\Documents and Settings\PZucker\My Documents\Examination Auxillary files\10564720\10564720 pt 2 clm 6.str

L21 STRUCTURE UPLOADED

=> d 121

L21 HAS NO ANSWERS

L21 STR



Structure attributes must be viewed using STN Express query preparation.

=> search 121 sss sam

SAMPLE SEARCH INITIATED 11:06:28 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 24300 TO ITERATE

8.2% PROCESSED 2000 ITERATIONS 0 ANSWERS  
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 476671 TO 495329

PROJECTED ANSWERS: 0 TO 0

L22 0 SEA SSS SAM L21

=> search 121 sss

ENTER SCOPE OF SEARCH (SAMPLE), FULL, RANGE, OR SUBSET:full

FULL SEARCH INITIATED 11:06:39 FILE 'REGISTRY'

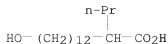
FULL SCREEN SEARCH COMPLETED - 482924 TO ITERATE

100.0% PROCESSED 482924 ITERATIONS 2 ANSWERS  
SEARCH TIME: 00.00.04

L23 2 SEA SSS FUL L21

=> d scan

L23 2 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN  
IN Tetradecanoic acid, 14-hydroxy-2-propyl-  
MF C17 H34 O3

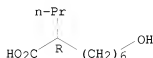


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

L23 2 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN  
IN Octanoic acid, 8-hydroxy-2-propyl-, (2R)-  
MF C11 H22 O3

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

ALL ANSWERS HAVE BEEN SCANNED

=> file caplus  
COST IN U.S. DOLLARS

|            |         |
|------------|---------|
| SINCE FILE | TOTAL   |
| ENTRY      | SESSION |
| 719.88     | 1133.64 |

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

|            |         |
|------------|---------|
| SINCE FILE | TOTAL   |
| ENTRY      | SESSION |
| 0.00       | -8.00   |

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FILE COVERS 1907 - 12 Mar 2008 VOL 148 ISS 11

FILE LAST UPDATED: 11 Mar 2008 (20080311/ED)

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<http://www.cas.org/infopolicy.html>

=> l23

L24            3 L23

=> d l24 ti fbib abs\  
'ABS\' IS NOT A VALID FORMAT FOR FILE 'CAPLUS'

The following are valid formats:

ABS ----- GI and AB  
ALL ----- BIB, AB, IND, RE  
APPS ----- AI, PRAI  
BIB ----- AN, plus Bibliographic Data and PI table (default)  
CAN ----- List of CA abstract numbers without answer numbers  
CBIB ----- AN, plus Compressed Bibliographic Data  
CLASS ----- IPC, NCL, ECLA, FTERM  
DALL ----- ALL, delimited (end of each field identified)  
DMAX ----- MAX, delimited for post-processing  
FAM ----- AN, PI and PRAI in table, plus Patent Family data  
FBIB ----- AN, BIB, plus Patent FAM  
IND ----- Indexing data  
IPC ----- International Patent Classifications  
MAX ----- ALL, plus Patent FAM, RE  
PATS ----- PI, SO  
SAM ----- CC, SX, TI, ST, IT  
SCAN ----- CC, SX, TI, ST, IT (random display, no answer numbers;  
              SCAN must be entered on the same line as the DISPLAY,  
              e.g., D SCAN or DISPLAY SCAN)  
STD ----- BIB, CLASS  
  
IABS ----- ABS, indented with text labels  
IALL ----- ALL, indented with text labels  
IBIB ----- BIB, indented with text labels  
IMAX ----- MAX, indented with text labels  
ISTD ----- STD, indented with text labels  
  
OBIB ----- AN, plus Bibliographic Data (original)  
OIBIB ----- OBIB, indented with text labels  
  
SBIB ----- BIB, no citations  
SIBIB ----- IBIB, no citations  
  
HIT ----- Fields containing hit terms  
HITIND ----- IC, ICA, ICI, NCL, CC and index field (ST and IT)  
              containing hit terms  
HITRN ----- HIT RN and its text modification  
HITSTR ----- HIT RN, its text modification, its CA index name, and  
              its structure diagram  
HITSEQ ----- HIT RN, its text modification, its CA index name, its  
              structure diagram, plus NTE and SEQ fields  
FHITSTR ----- First HIT RN, its text modification, its CA index name, and  
              its structure diagram  
FHITSEQ ----- First HIT RN, its text modification, its CA index name, its  
              structure diagram, plus NTE and SEQ fields  
KWIC ----- Hit term plus 20 words on either side

OCC ----- Number of occurrence of hit term and field in which it occurs

To display a particular field or fields, enter the display field codes. For a list of the display field codes, enter HELP DFIELDS at an arrow prompt (=>). Examples of formats include: TI; TI,AU; BIB,ST; TI,IND; TI,SO. You may specify the format fields in any order and the information will be displayed in the same order as the format specification.

All of the formats (except for SAM, SCAN, HIT, HITIND, HITRN, HITSTR, FHITSTR, HITSEQ, FHITSEQ, KWIC, and OCC) may be used with DISPLAY ACC to view a specified Accession Number.  
ENTER DISPLAY FORMAT (BIB):end

=> d 124 ti fbib abs

L24 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2008 ACS on SIN

TI Nerve regeneration promoters containing fatty acid compounds

AN 2005:316345 CAPLUS <<LOGINID::20080312>>

DN 142:379379

TI Nerve regeneration promoters containing fatty acid compounds

IN Tateishi, Narito; Yamamoto, Junki; Kawaharada, Soichi; Akiyama, Tsutomu; Hoshikawa, Masamitsu

PA Ono Pharmaceutical Co., Ltd., Japan

SO PCT Int. Appl., 61 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

|    | PATENT NO.    | KIND   | DATE     | APPLICATION NO. | DATE       |
|----|---------------|--|----------|-----------------|------------|
|    | -----         | ---  | -----    | -----           | -----      |
| PI | WO 2005032535 | A1   | 20050414 | WO 2004-JP14879 | 20041001   |
|    | W:            | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW |          |                 |            |
|    | RW:           | BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG   |          |                 |            |
|    |               |  |          | JP 2003-345123  | A 20031003 |
|    |               |  |          | JP 2004-162909  | A 20040601 |
|    | EP 1685832    | A1   | 20060802 | EP 2004-792173  | 20041001   |
|    | R:            | AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK   |          |                 |            |
|    |               |  |          | JP 2003-345123  | A 20031003 |
|    |               |  |          | JP 2004-162909  | A 20040601 |
|    |               |  |          | WO 2004-JP14879 | W 20041001 |
|    | US 2007043114 | A1   | 20070222 | US 2006-574479  | 20061005   |
|    |               |  |          | JP 2003-345123  | A 20031003 |
|    |               |  |          | JP 2004-162909  | A 20040601 |
|    |               |  |          | WO 2004-JP14879 | W 20041001 |

OS MARPAT 142:379379

AB Disclosed are nerve regeneration promoters containing fatty acid compds. especially

compds. R2C(R3)(R4)COR1 [R1 hydroxy; R2, R3 = H, C1, C3-10 alkyl, C3-10 alkenyl, etc.; R4 = (oxidized) C2-3 alkyl], salts thereof or prodrugs of the same. The compds. inhibit nerve cell death and promote the formation

of new nerve cells and nerve cell regeneration and also promote the repair and regeneration of nerve tissues and functions through neurite extension, because of serving as a stem cell (nerve stem cell, embryonic stem cell, bone marrow cell, etc.) proliferation/differentiation promoter, a nerve cell precursor proliferation/differentiation promoter, a neurotrophic factor activity enhancer, a neurotrophic factor-like substance or a neurodegeneration inhibitor. Furthermore, these compds. are useful in preparing cells for transplantation (nerve stem cells, nerve cell precursors, nerve cells, etc.) from a brain tissue, bone marrow, embryonic stem cells, etc. At the same time, these compds. promote the take, proliferation, differentiation and function expression of transplanted cells, which makes them useful as preventives and/or remedies for neurodegenerative diseases. The effect of (2R)-2-propyloctanoic acid on nerve stem cell differentiation in rats was examined

RE.CNT 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 124 2-3 ti fbib abs

L24 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2008 ACS on STN

TI Preparation of branched carboxylic acid compound and use thereof

AN 2005:55187 CAPLUS <<LOGINID::20080312>>

DN 142:134202

TI Preparation of branched carboxylic acid compound and use thereof

IN Imawaka, Haruo; Hasegawa, Tomoyuki; Sakuyama, Shigeru; Kawanaka, Yasufumi; Akiyama, Tsutomu; Hoshikawa, Masamitsu; Matsuda, Saiko

PA Ono Pharmaceutical Co., Ltd., Japan

SO PCT Int. Appl., 75 pp.

CODEN: PIXXD2

DT Patent

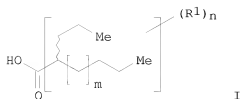
LA Japanese

FAN.CNT 1

|    | PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE       |
|----|---|------|----------|-----------------|------------|
| PI | WO 2005005366   | A1   | 20050120 | WO 2004-JP10366 | 20040714   |
|    | W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW |      |          |                 |            |
|    | RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG  |      |          |                 |            |
|    |   |      |          | JP 2003-274988  | A 20030715 |
| EP | 1650182   | A1   | 20060426 | EP 2004-747782  | 20040714   |
|    | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK   |      |          |                 |            |
|    |   |      |          | JP 2003-274988  | A 20030715 |
|    |   |      |          | WO 2004-JP10366 | W 20040714 |
| US | 2007167522  | A1   | 20070719 | US 2006-564720  | 20060117   |
|    |   |      |          | JP 2003-274988  | A 20030715 |
|    |   |      |          | WO 2004-JP10366 | W 20040714 |

OS MARPAT 142:134202

GI



I

AB A branched alkanolic acid represented by the general formula (I) (wherein R1 = optionally protected hydroxy or oxo; a wavy line indicates  $\alpha$  configuration,  $\beta$  configuration, or a mixture of these in an arbitrary proportion; n = an integer of 1 to 3; m = an integer of 0 to 10, provided that two or more R1's are not bonded to the same carbon atom other than the terminal carbon atoms), a salt of the compound, or a prodrug of either is prepared. The compound I is effective in, e.g., improving the function of astrocytes. It is useful as a preventive and/or therapeutic agent for brain infarction or nerve function disorders after brain infarction and for neurodegenerative diseases such as Parkinson's disease, Parkinson's syndrome, amyotrophic lateral sclerosis, and Alzheimer's disease. Thus, a solution of 31 g (4S)-N-[(2R)-7-oxo-2-propyloctanoyl]-4-isopropylloxazolidin-2-one in 310 mL THF and 31 mL H<sub>2</sub>O was treated with 45.3 mL 30 weight% H<sub>2</sub>O<sub>2</sub> at 6° and then dropwise with 100 mL 2 M aqueous LiOH at 5°, stirred at 24° for 3 h, treated dropwise with 300 mL 2 M NaNO<sub>2</sub>, stirred at 26° for 1 h to give, after workup and silica gel chromatog., (2R)-7-oxo-2-propyloctanoic acid (II). II at 30  $\mu$ mol/L in vitro significantly reduced cellular S100 $\beta$  protein in astrocytes from 2,177.0 $\pm$ 147.74 to 1,489.0 $\pm$ 37.84 (ng/mg). Pharmaceutical formulations, e.g. tablet containing II, were prepared

RE.CNT 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2008 ACS on STN  
TI Syntheses of deuterium-labeled methyl-branched fatty acids  
AN 1992:83179 CAPLUS <<LOGINID:20080312>>  
DN 116:83179  
TI Syntheses of deuterium-labeled methyl-branched fatty acids  
AU Dobner, B.; Nuhn, P.  
CS Dep. Pharm., Univ. Halle, Halle, O-4020, Germany  
SO Chemistry and Physics of Lipids (1991), 60(1), 21-8  
CODEN: CPLIA4; ISSN: 0009-3084  
DT Journal  
LA English  
OS CASREACT 116:83179  
AB The syntheses of some trideuterated methyl-branched fatty acids, suitable for NMR studies in membranes, are accomplished by successive redns. of an ester carbonyl group. Two methods were found to prepare 2-allyl- $\omega$ -hydroxy carboxylic acids, which are suitable intermediates for the synthesis of the title compds.

=> d 124 3 ti it fbib abs

L24 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2008 ACS on STN  
TI Syntheses of deuterium-labeled methyl-branched fatty acids  
IT Fatty acids, preparation  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(trideuteriomethylated, preparation of, by successive reduction-deuteration)  
IT 138706-33-9 138706-34-0 138706-35-1

RL: RCT (Reactant); RACT (Reactant or reagent)  
 (alkylation by, of alkanolic acids)  
 IT 18424-77-6 18995-13-6  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (alkylation of)  
 IT 107-92-6, Butanoic acid, reactions 109-52-4, Pentanoic acid, reactions  
 334-48-5, Decanoic acid  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (bromoalkylation and hydrolysis of)  
 IT 138706-30-6P 138706-31-7P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)  
 (preparation and reaction with di-Et malonates)  
 IT 138706-38-4P 138706-39-5P 138706-40-8P 138706-41-9P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation and sequential deuteration-reduction and mesylation of)  
 IT 138706-42-0P 138706-43-1P 138706-44-2P 138706-45-3P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation and sequential reduction-deuteration and oxidation of)  
 IT 138706-46-4P 138706-47-5P 138706-48-6P 138729-72-3P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 IT 21964-30-7P 138706-32-8P 138706-36-2P 138706-37-3P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation, esterification and reaction with dihydropyran)  
 IT 116452-12-1 116754-57-5  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (reaction of, with di-Et alkylmalonates)  
 IT 7147-29-7 50515-98-5  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (sequential reaction with dihydropyran, reduction and mesylation of)  
 AN 1992:83179 CAPLUS <<LOGINID::20080312>>  
 DN 116:83179  
 TI Syntheses of deuterium-labeled methyl-branched fatty acids  
 AU Dobner, B.; Nuhn, P.  
 CS Dep. Pharm., Univ. Halle, Halle, O-4020, Germany  
 SO Chemistry and Physics of Lipids (1991), 60(1), 21-8  
 CODEN: CPLIA4; ISSN: 0009-3084  
 DT Journal  
 LA English  
 OS CASREACT 116:83179  
 AB The syntheses of some trideuterated methyl-branched fatty acids, suitable  
 for NMR studies in membranes, are accomplished by successive redns. of an  
 ester carbonyl group. Two methods were found to prepare  
 2-allyl- $\omega$ -hydroxy carboxylic acids, which are suitable intermediates  
 for the synthesis of the title compds.

=> 138706-37-3

REGISTRY INITIATED

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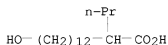
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The search profile that was entered contains terms or  
nested terms that are not separated by a logical operator.

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The search profile that was entered contains terms or  
nested terms that are not separated by a logical operator.

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L26 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2008 ACS on STN  
IT 138706-37-3P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation, esterification and reaction with dihydropyran)  
RN 138706-37-3 CAPLUS  
CN Tetradecanoic acid, 14-hydroxy-2-propyl- (CA INDEX NAME)



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COST IN U.S. DOLLARS  
FULL ESTIMATED COST

|            |         |
|------------|---------|
| SINCE FILE | TOTAL   |
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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)  
CA SUBSCRIBER PRICE

|            |         |
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| SINCE FILE | TOTAL   |
| ENTRY      | SESSION |
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SESSION WILL BE HELD FOR 120 MINUTES  
STN INTERNATIONAL SESSION SUSPENDED AT 11:14:25 ON 12 MAR 2008